

IN THE CLAIMS:

The claims are listed as follows:

1. (Currently Amended) A stator for an electrical ~~induction~~ machine, comprising an even number n of stator sections at different axial positions, each section having a plurality of circumferentially separated, radially extending teeth and each tooth having a single winding,

wherein the stator sections are physically shifted relative to one another in a circumferential direction by $360^\circ/n \pm$ an angle related to skew,

and wherein power supplied for the teeth of a first set of $n/2$ of the stator sections is shifted 180° electrical relative to power supplied for the teeth of a second set of $n/2$ of the stator sections.

2. (Previously Presented) A stator as claimed in claim 1, wherein the even number n is 2, the stator sections being physically phase shifted by substantially 180° electrical \pm an angle related to skew, and the two stator sections have their electrical supplies shifted by 180° electrical.

3. (Previously Presented) A stator as claimed in claim 1, wherein each stator section has the same number of teeth.

4. (Previously Presented) A stator as claimed in claim 1, wherein each stator section, at least partly, is made of a magnetic powder.

5. (Previously Presented) A stator as claimed in claim 4, wherein each stator section is made of several separate units, each unit comprising a tooth and an adjoining part of a yoke of the stator.

6. (Previously Presented) A stator as claimed in claim 5, wherein each unit also comprises one of said single windings.

7. (Previously Presented) A stator as claimed in claim 5, wherein the adjoining parts of the yoke extend axially past the teeth at least at one of the axial sides thereof.

8. (Previously Presented) A stator as claimed in claim 1, wherein the tips of the teeth extend axially past the main part of the teeth at least at one of the axial sides thereof.

9. (Previously Presented) A stator as claimed in claim 1, wherein each tooth has a rounded profile.

10. (Previously Presented) A stator as claimed in claim 1, wherein the stator sections are separated axially.

11. (Currently Amended) An electrical ~~induction~~ machine having a rotor and a stator, wherein the stator comprises an even number n of stator sections at different axial positions, each section having a plurality of circumferentially separated, radially extending teeth and each tooth having a single winding, wherein the stator sections are physically shifted relative to one another in a circumferential direction by $360^\circ/n \pm$ an angle related to skew, and wherein power supplied for the teeth of a first set of $n/2$ of the stator sections is shifted 180° electrical relative to power supplied for the teeth of a second set of $n/2$ of the stator sections.

12. (Previously Presented) A stator as claimed in claim 2, wherein each stator section has the same number of teeth.

13. (Previously Presented) A stator as claimed in claim 2, wherein each stator section, at least partly, is made of a magnetic powder.

14. (Previously Presented) A stator as claimed in claim 3, wherein each stator section, at least partly, is made of a magnetic powder.

15. (Previously Presented) A stator as claimed in claim 12, wherein each stator section, at least partly, is made of a magnetic powder.

16. (Previously Presented) A stator as claimed in claim 6, wherein the adjoining parts of the yoke extend axially past the teeth at least at one of the axial sides thereof.

17. (Previously Presented) A stator as claimed in claim 2, wherein the tips of the teeth extend axially past the main part of the teeth at least at one of the axial sides thereof.

18. (Previously Presented) A stator as claimed in claim 3, wherein the tips of the teeth extend axially past the main part of the teeth at least at one of the axial sides thereof.

19. (Previously Presented) A stator as claimed in claim 2, wherein each tooth has a rounded profile.

20. (Previously Presented) A stator as claimed in claim 3, wherein each tooth has a rounded profile.

21. (Previously Presented) A stator as claimed in claim 2, wherein the stator sections are separated axially.